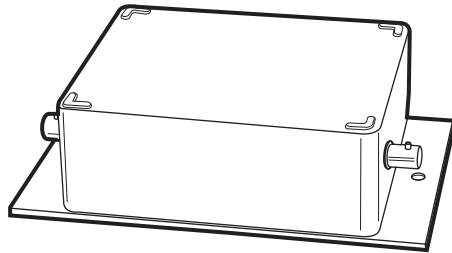




# Installation/Operation

## **GIT100 Ground Transformer**

### **C600M-B (4/00)**



Pelco • 3500 Pelco Way • Clovis, CA 93612-5699 USA • [www.pelco.com](http://www.pelco.com)

In North America and Canada: Tel (800) 289-9100 • FAX (800) 289-9150

International Customers: Tel +1(559) 292-1981 • FAX +1(559) 348-1120

PelcoEurope BV • Dillenburg Center, Dillenburgstraat 5F • 5652 Eindhoven • The Netherlands

Tel +31(40) 251-9870 • FAX +31(40) 251-9835

## IMPORTANT SAFEGUARDS AND WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6 or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.

## DESCRIPTION

The GIT100 Ground Loop Isolation Transformer reduces interference with CCTV signals caused by ground loop potentials.

A ground loop is an electrical problem that happens when an AC current interferes with the ground reference level of the video signal. It occurs on the conductive path formed by the shield of the coaxial video cable and the chassis of the video equipment. A loop results from the difference between the voltage potential of the shield at one end of the cable, versus the voltage potential of the shield at the other end.

The electrical level of the shield is usually zero volts. When a ground loop is present, this level fluctuates above and below zero volts. The greater the difference, the more severe the video distortion or tearing. If the potential is too great, it can destroy the equipment.

Larger voltages are common for distances of a few thousand feet, not for small separations. Potentials of greater than 0.5 are commonly found between two points in the same building.

## INSTALLATION

For best results place the transformer **near the monitor**. Refer to Figure 1.

The shorter the coaxial cable the greater the performance of the GIT100. Use more than one ground loop isolation transformer when the ground loop potential exceeds 10 Vp-p; typically, place one transformer at each end of the coaxial cable.

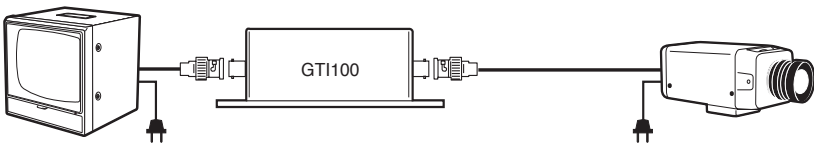


Figure 1. Basic Installation of the GIT100 Transformer

# SPECIFICATIONS

## VIDEO

Ground Loop Voltage: Maximum rejection of 10 Vp-p at 60 Hz

Video Performance

Characteristics: Equivalent in all respects to approximately 200 feet (60.96 m) of RG-59/U coaxial cable

Connectors: BNC

## GENERAL

Dimensions: 1.90 (H) x 4.25 (W) x 6.50 (L) inches (4.83 x 10.80 x 16.51 cm)

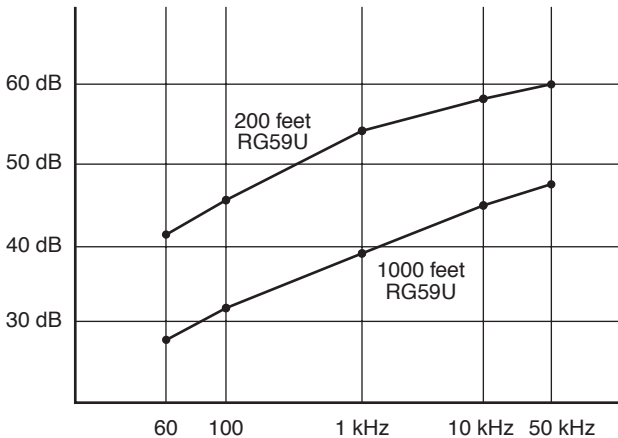
Weight: 3 lb (1.35 kg)

Rating: NEMA 1

(Design and product specifications subject to change without notice.)

**Table A.** Common Mode Rejection

Length of RG59U	Effective CMR at 60 Hz
200 feet (60.96 m)	43 dB
400 feet (121.9 m)	37 dB
600 feet (182.9 m)	33 dB
800 feet (243.8 m)	31 dB
1,000 feet (300.8 m)	29 dB



**Figure 2.** Effective Ground Loop Voltage Attenuation

## PRODUCT WARRANTY AND RETURN INFORMATION

### WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FT/FR8000 Series fiber optic products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

### RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

*If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:*

Service Department  
Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699

*If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:*

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco  
3500 Pelco Way  
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors  
473 Eccles Avenue  
South San Francisco, CA 94080 USA  
Phone: 650-737-1700  
Fax: 650-737-0933

### REVISION HISTORY

Manual #	Date	Comments
C600M-A	9/90	Rev. A.
C600M-B	3/00	Updated manual to new format.